The Power of Star
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Guide to Programming Radio Model PX-777

1. Install Procedures

1.1 Plug RS232 COM port of program cable to a Computer

1.2 Install the software from a CD-ROM

1) Double click “PX6IN1.EXE” file and click NEXT NEXT…to finish
(You may input any word as a Serial Number)

2) Click the software icon “PX6IN1” on desktop and select a Eng. Version

3) Select Product: ***Select PX-777/328 CH128 MSK+CCIR only (or select Ch128(V2))***

Note:

1) Don’t select others, your radio may not have these features, the unfit software version may damage your radio!

2) If you ensure your radio have a two tone paging function, you must use “PX777/328 CH128+2 TONE”.

4) After confirm the select, press OK to next step.

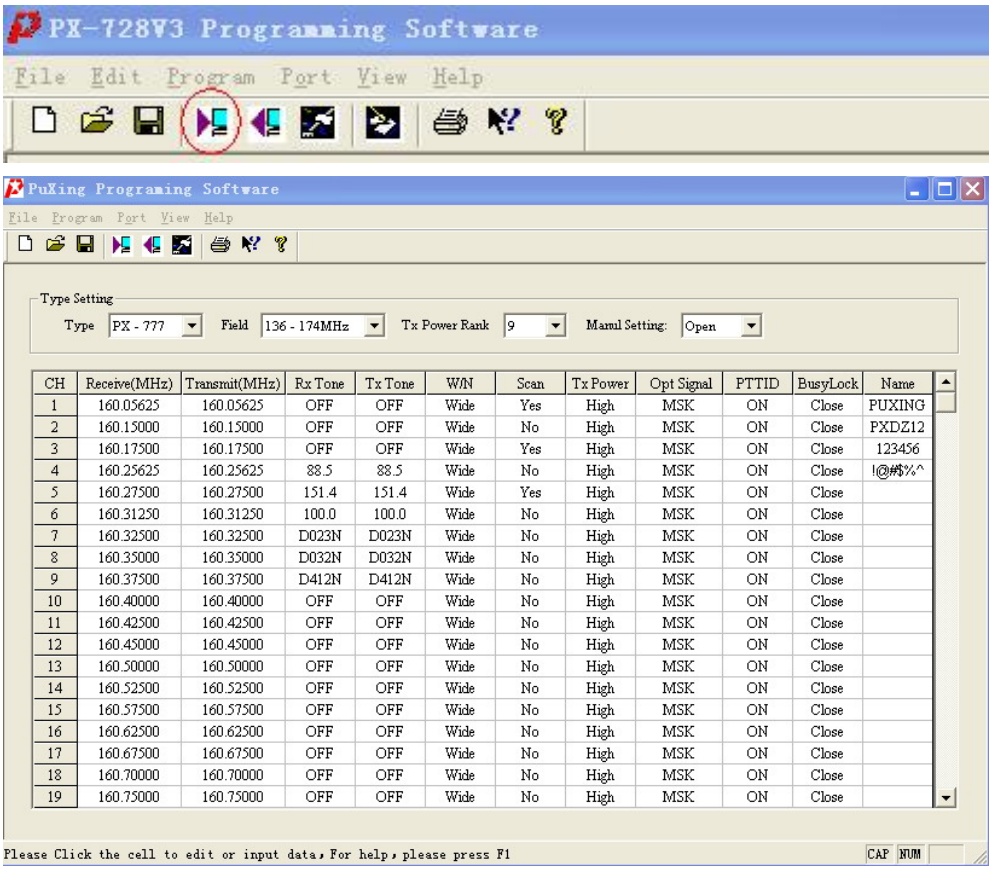
3) Connect the programming cable to your radio.

4) Select a communication port.

Right-click My Computer -> Properties -> Hardware -> Device Manager, to view the detailed information. As shown in the below figure, COM1 is the communication port for RS232 programming cable.

5) Make sure your software is also in COM1
(Click Port to set the COM)

6) Turn on your radio and click READ to read the radio's default factory parameters.
(or click "Program"→"Read From Radio")


PX-728V3 Programming Software
File Edit Program Port View Help
PuXing Programing Software
File Program Port View Help
Type Setting
Type PX - 777
Field 136 - 174MHz
Tx Power Rank 9
Manul Setting: Open
Please Click the cell to edit or input data, For help, please press F1
CAP NUM

CH	Receive(MHz)	Transmit(MHz)	Rx Tone	Tx Tone	W/N	Scan	Tx Power	Opt Signal	PTTID	BusyLock	Name
1	160.05625	160.05625	OFF	OFF	Wide	Yes	High	MSK	ON	Close	PUXING
2	160.15000	160.15000	OFF	OFF	Wide	No	High	MSK	ON	Close	PXDZ12
3	160.17500	160.17500	OFF	OFF	Wide	Yes	High	MSK	ON	Close	123456
4	160.25625	160.25625	88.5	88.5	Wide	No	High	MSK	ON	Close	!@#$%^
5	160.27500	160.27500	151.4	151.4	Wide	Yes	High	MSK	ON	Close	
6	160.31250	160.31250	100.0	100.0	Wide	No	High	MSK	ON	Close	
7	160.32500	160.32500	D023N	D023N	Wide	No	High	MSK	ON	Close	
8	160.35000	160.35000	D032N	D032N	Wide	No	High	MSK	ON	Close	
9	160.37500	160.37500	D412N	D412N	Wide	No	High	MSK	ON	Close	
10	160.40000	160.40000	OFF	OFF	Wide	No	High	MSK	ON	Close	
11	160.42500	160.42500	OFF	OFF	Wide	No	High	MSK	ON	Close	
12	160.45000	160.45000	OFF	OFF	Wide	No	High	MSK	ON	Close	
13	160.50000	160.50000	OFF	OFF	Wide	No	High	MSK	ON	Close	
14	160.52500	160.52500	OFF	OFF	Wide	No	High	MSK	ON	Close	
15	160.57500	160.57500	OFF	OFF	Wide	No	High	MSK	ON	Close	
16	160.62500	160.62500	OFF	OFF	Wide	No	High	MSK	ON	Close	
17	160.67500	160.67500	OFF	OFF	Wide	No	High	MSK	ON	Close	
18	160.70000	160.70000	OFF	OFF	Wide	No	High	MSK	ON	Close	
19	160.75000	160.75000	OFF	OFF	Wide	No	High	MSK	ON	Close	

Note: After read the parameter, you sometime found that the "Field" may not same as actual unit in your hand, Example, your radio is a UHF 400-470mhz, but the "Field" displays 136-174Mhz, this is not a problem

2. Version information

Click "Help"→ "About PUXING" you will read the version information.

3. List and describe of programming Menu

Type: The radio's model numbers

Field: The radio's frequency band

Note: Not all bands are available for your radio

Tx Power Rank: To select different power level from 0 to 9.

0: Lowest power level, 9: Highest power level

Manual Setting: To enable/disable switch between Channel and Frequency mode

Open: Press and hold ENTER key while turn ON power, the radio will switch between Channel and Frequency mode.

Close: To disable the switchable function.

CH: Display the channel number

Receive (MHz): Receive frequency

Transmit (MHz): Transmit frequency

Rx Tone: CTCSS & DCS tone (QT/DQT) in Receive

CTCSS: 50

DCS: 104 (normal and invert)

Tx Tone: CTCSS & DCS tone (QT/DQT) in Transmit

CTCSS: 50

DCS: 104 (normal and invert)

W/N: Wide Channel space (25khz) and Narrow Channel space(12.5khz)

W: The maximum modulation less than 5KHz

N: The maximum modulation less than 2.5KHz

Scan: "Yes" or "No" option

Yes: The radio will scan this channel when you set radio to scan

No: The radio will not scan this channel

TX Power: High and Low

When you want to save the battery power you can select "Low", otherwise, set "High"

When you set High, the radio will transmit in High power, otherwise Low power.

Opt Signal: MSK, DTMF and CCIR (Detailed operation refer to "ID Operation" below)

CH	Receive(MHz)	Transmit(MHz)	Rx Tone	Tx Tone	W/N	Scan	Tx Power	Opt Signal	PTTID	BusyLock	Name
1	160.05625	160.05625	OFF	OFF	Wide	Yes	High	MSK	ON	Close	
2	160.15000	160.15000	OFF	OFF	Wide	No	High	MSK	ON	Close	
3	160.17500	160.17500	OFF	OFF	Wide	Yes	High	MSK	ON	Close	
4	160.25625	160.25625	88.5	88.5	Wide	No	High	MSK	ON	Close	

PTT ID: Set ON to display PTT ID on radio's LCD.

BusyLock: Busy Channel/Tone Lockout, there are OFF, Carrier and QT/DQT option

Off: This function disables

Carrier: The transmit disable while other radio is transmitting, until other radio stop transmitting.

QT/DQT: When your radio has same setting of frequency & tone, transmit will be disable, it can transmit while your radio have a different tone (CTCSS/DCS).

Name: To edit channel name, capital alphanumeric only

Note: To display channel name you must set "NAME?" ON by keypad

(Press MENU,ENTER and rotate channel selector to "NAME? 15" then press ENTER, rotate selector to select ON, press ENTER confirm and press twice VFO/MR to exit)

3. Program Menu function

Click "Program" to enter the items.

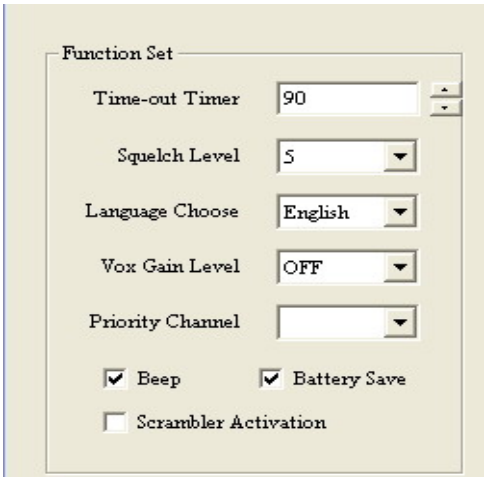
Read from Radio/Write to Radio: For read and write operate.

Test Mode:

Note: This function is temporarily unavailable; please don't try to use this function

Optional Features:

a) Function Set



3.1 Time out Time (TOT)

The preset transmit time limit, there are "off" to "600s" option. When you press PTT continuously for the preset value, the transmit will be block

3.2 Squelch Level(SQ)

From "0" to "9" option, when you set SQ to "0", it may open squelch even if no signal input

3.3 Language Choose

Voice guide for your each operation, it is useful for side keys operation or operate in dark.

English or Chinese language options

3.4 Vox Gain Level: Off, 1-9 levels option

Off: Close this function

Level 1: lowest sensitivity, Level 9: highest sensitivity

3.5 Priority Channel: To set certain channel as priority scan channel, the radio will always scan this priority channel each scan. Examples, you set channel 5 as priority channel, it always scans as this: 5-1, 5-2, 5-3, 5-4, 5-6, 5-7, 5-8 etc..

Note: you can set radio to priority scan by keypad (press MENU,2PRI,ENTER)

3.6 Beep: A tone to come with your operation.

Enable: To activate alert tone for Low Power, Blank frequency, Power On and Pressing operation.

Disable: To inactivate the function

3.7 Battery Save: to save the battery duration time

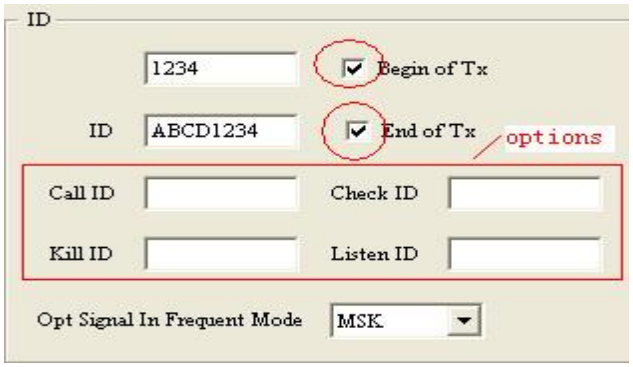
When set this On, the Rx will automatically enter into “Save Power” status in case of no operate on your radio.

3.8 Scrambler Activation

Scrambler is a function to prevent unauthorized person from hearing your communication, when you set this function On, those who is in same frequency will not hear your talk.

Note: Your partner also needs to turn Scrambler On then you can talk clearly.

b) ID Operation



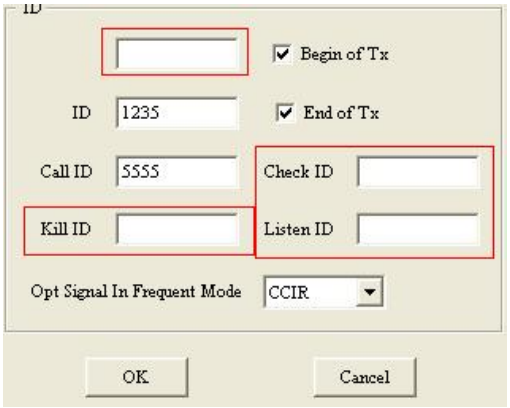
MSK: A signaling which be send as ANI and display PTT ID.

The first blank is the MSK tone code (At most four numbers) which emit before transmit voice (TX), “ID” is MSK PTT ID (At most Six alphanumeric) which will display on LCD after you release PTT(To display PTT ID and talk to your partner, you must press and hold PTT until the code tone is end).

Note: To display MSK PTT ID you must:

1) ***Set “MSK” in “Opt Signal” column***
2) ***Set “ON” in “PTT ID” column***
3) ***You must marked “Begin of TX” and “End of Tx” (See pic.below)***
4) ***After each programming and unplug the program cable, you MUST turn “ANI” on by keypad (Press MENU,0ANI,ENTER and rotate channel selector to set ON, then press ENTER confirm and press twice VFO/MR to exit)***
5) ***The Call ID, Check ID, Kill ID, Listen ID is option, your radio may not have these function.***
6) ***Opt Signal In Frequency Mode allow you to display MSK PTT ID in frequency mode.***

CCIR: A signaling same as MSK, but LCD display only digital, not letter.



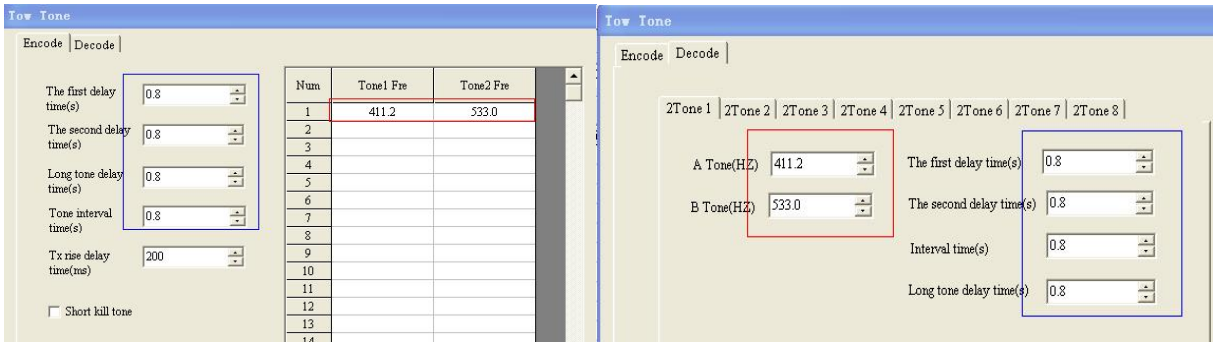
ID: “ID” is MSK PTT ID (At most Eight digitals) which will display on LCD after you release PTT
Call ID: a tone in CCIR format (At most Eight digitals).

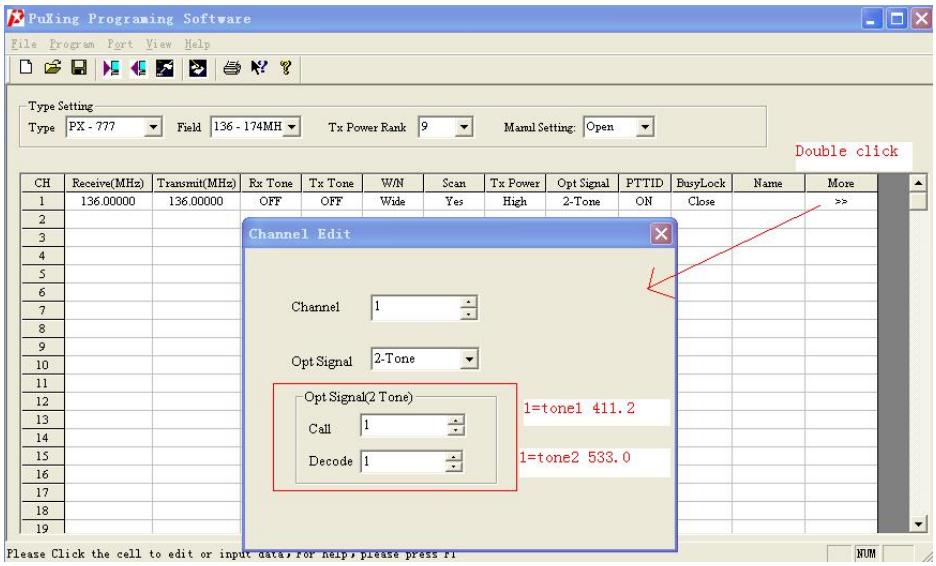
Note: To display CCIR PTT ID you must

1) ***Set “CCIR” in “Opt Signal” column***
2) ***Set “ON” in “PTT ID” colume***
3) ***Marked “Begin of Tx’’ and “End of Tx”***
4) ***After each programming and unplug the program cable, you MUST turn “ANI” on by keypad (Press MENU,0ANI,ENTER and rotate channel selector to set ON, then press ENTER confirm and press twice VFO/MR to exit)***
5) ***The Call ID, Check ID, Kill ID, Listen ID is option, your radio may not have these function.***
6) ***Opt Signal In Frequency Mode allow to display CCIR PTT ID in frequency mode.***
7) ***The numbers on “ ID” column must be DIFFERENT with receive radio, otherwise bell chime***
8) ***The CCIR cannot use for a SelCall operation***

DTMF

Two Tone signaling: (This features are option, ask your seller for details)





To use two tone encode/decode you can operate as follow:

1. Set “Opt Signal” to “2-Tone” and “PTT ID” to ON
2. Double click “More” to set Call 1 and Decode 1.(“1” is equal to the “Num”)
3. Enter tone frequency on “Tone1 Fre” and “Tone2 Fre” (Range from 300hz to 3khz)
4. Make sure the tone delay time is exactly same for Encode and Decode
5. After programming you can write the data to your radios.

Now you cannot open squelch while pressing PTT, you should press and hold Orange button until another radio bell ring. Then you can talk freely.

Note: Before press and hold Orange button, you should set the “ANI” ON by keypad. (Press Enter→0ANI→Enter→ON→Enter→VFO/MR)

7. Print Preview

After programming you can click "File→Print Preview" to check all setting before save or print out.

8. CTCSS/DCS list

50 CTCSS frequency code (Hz)

67.0	85.4	107.2	136.5	165.5	186.2	210.7	254.1
69.3	88.5	110.9	141.3	167.9	189.9	218.1	
71.9	91.5	114.8	146.2	171.3	192.8	225.7	
74.4	94.8	118.8	151.4	173.8	196.6	229.1	
77.0	97.4	123.0	156.7	177.3	199.5	233.6	
79.7	100.0	127.3	159.8	179.9	203.5	241.8	
82.5	103.5	131.8	162.2	183.5	206.5	250.3	

104+1 DCS code

023	065	132	205	255	331	413	465	612	723
025	071	134	212	261	332	423	466	624	731
026	072	146	223	263	343	431	503	627	732
031	073	145	225	265	346	432	506	631	734
032	074	152	226	266	351	445	516	632	743
036	114	155	243	271	356	446	523	645	754
043	115	156	244	274	364	452	526	654	
047	116	162	245	306	365	454	532	662	
051	122	165	246	311	371	455	546	664	
053	125	172	251	315	411	462	565	703	
054	131	174	252	325	412	464	606	712	